

Lichttechnischer Prüfbefund

Familie  
Monsun® 11



Bestell-Nr.: 51FE117P480S  
EAN: 4069025242433

Ausführung

Bestückung

Betriebsgerät

Bemessungswerte

Prismenwanne, opal, PMMA, eng strahlend

LED 4000 K | CRI ≥ 80

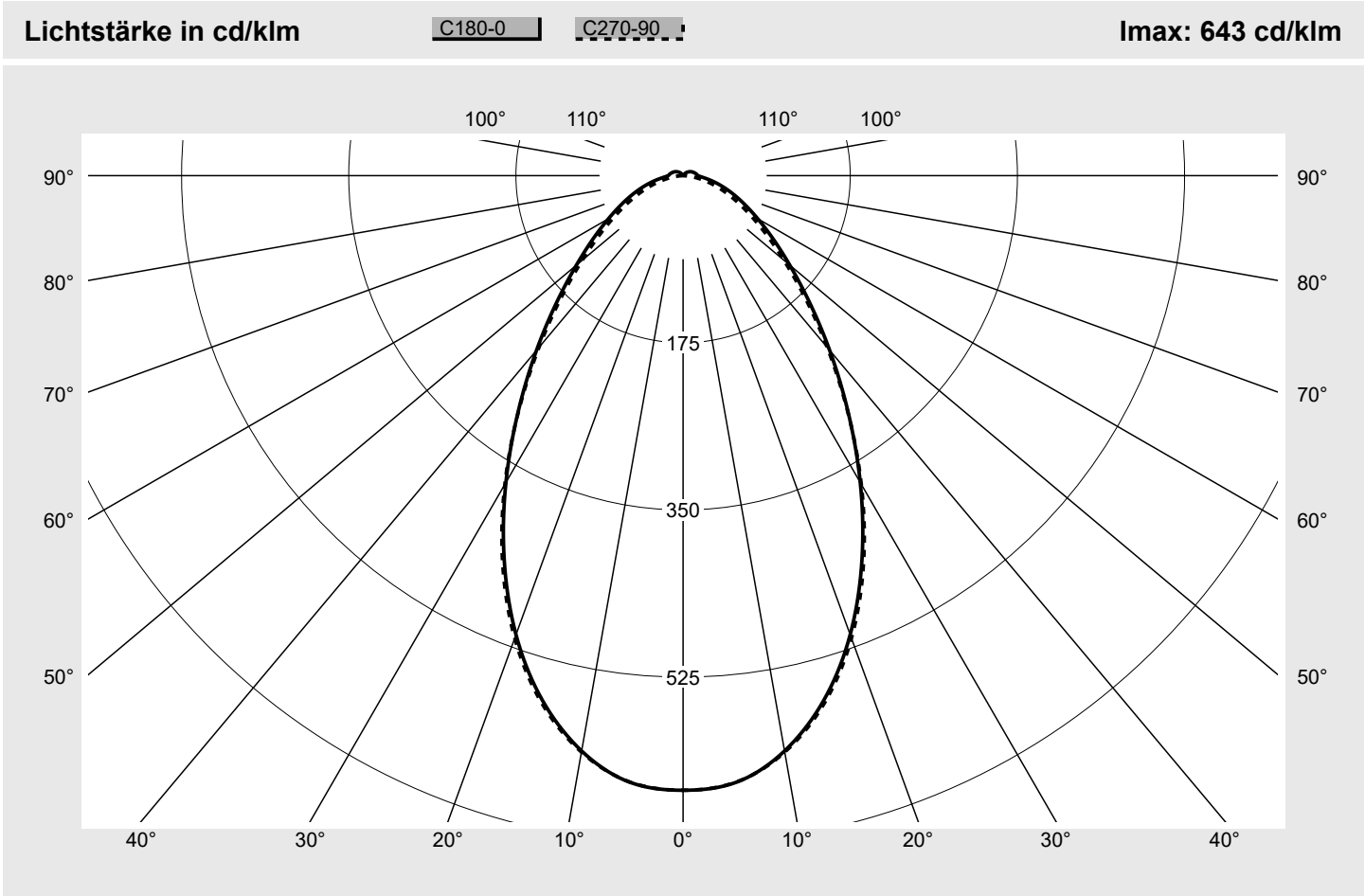
EVG

Nettolichtstrom = 7860 lm  
Systemleistung = 39.9 W  
Lichtausbeute = 197 lm/W

LP-Nummer  
59014\_9

Seriedokumentation  
20.08.2024

siteco



| Klassifizierungen |                   | Leuchtenbetriebswirkungsgrade |        |
|-------------------|-------------------|-------------------------------|--------|
| DIN 5040          | A 5 1             | $\eta_{LB}$                   | 100,0% |
| CIE               | N1=65 N2=88 N3=97 | $\phi_u$                      | 97,2%  |
|                   | N4=97 N5=100      | $\phi_o$                      | 2,8%   |

| Messbedingungen           |
|---------------------------|
| DIN EN 13032 und DIN 5032 |

Lichttechnischer Prüfbefund

|                                 |                                                 |                      |
|---------------------------------|-------------------------------------------------|----------------------|
| Familie<br>Monsun® 11           | Bestell-Nr.: 51FE117P480S<br>EAN: 4069025242433 | LP-Nummer<br>59014_9 |
| Wertetabelle Lichtstärkemessung | Maximale Lichtstärke                            | siteco               |

| C-<br>Ebenen | 0°<br>180°            | 15°<br>165°<br>195°<br>345° | 30°<br>150°<br>210°<br>330° | 45°<br>135°<br>225°<br>315° | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270° | Phi-Zone             | Summe<br>Phi-Zone |
|--------------|-----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|----------------------|-------------------|
| γ            | Lichtstärke in cd/klm |                             |                             |                             |                             |                             |             | Lichtstrom in lm/klm |                   |
| 0°           | 643.5                 | 643.5                       | 643.5                       | 643.5                       | 643.5                       | 643.5                       | 643.5       | 3.8                  | 3.8               |
| 5°           | 637.6                 | 635.4                       | 631.6                       | 634.4                       | 637.3                       | 637.0                       | 637.4       | 30.4                 | 34.2              |
| 10°          | 611.6                 | 610.1                       | 606.4                       | 609.4                       | 612.4                       | 612.4                       | 612.8       | 58.1                 | 92.3              |
| 15°          | 568.8                 | 568.0                       | 564.7                       | 567.5                       | 570.7                       | 571.1                       | 571.7       | 80.7                 | 173.0             |
| 20°          | 511.5                 | 511.1                       | 508.3                       | 510.7                       | 513.9                       | 514.6                       | 515.3       | 96.0                 | 269.0             |
| 25°          | 443.2                 | 443.1                       | 440.7                       | 442.6                       | 445.5                       | 446.1                       | 447.1       | 102.8                | 371.8             |
| 30°          | 371.0                 | 371.1                       | 368.7                       | 369.7                       | 371.9                       | 372.2                       | 373.1       | 101.7                | 473.5             |
| 35°          | 300.7                 | 300.7                       | 298.6                       | 298.4                       | 299.2                       | 299.0                       | 299.8       | 94.1                 | 567.6             |
| 40°          | 238.7                 | 238.3                       | 236.6                       | 235.1                       | 234.9                       | 234.3                       | 234.7       | 83.1                 | 650.7             |
| 45°          | 186.7                 | 186.0                       | 184.5                       | 182.3                       | 181.1                       | 179.9                       | 180.6       | 70.9                 | 721.6             |
| 50°          | 145.8                 | 145.0                       | 143.8                       | 141.4                       | 139.3                       | 137.5                       | 137.9       | 59.4                 | 781.0             |
| 55°          | 114.7                 | 113.7                       | 112.7                       | 110.1                       | 107.4                       | 105.2                       | 105.3       | 49.3                 | 830.4             |
| 60°          | 90.2                  | 89.4                        | 88.3                        | 85.7                        | 82.9                        | 80.3                        | 79.9        | 40.5                 | 870.8             |
| 65°          | 71.0                  | 70.3                        | 69.1                        | 66.5                        | 63.6                        | 60.7                        | 59.7        | 32.8                 | 903.6             |
| 70°          | 55.2                  | 54.7                        | 53.0                        | 50.5                        | 47.5                        | 44.4                        | 43.0        | 25.7                 | 929.3             |
| 75°          | 41.7                  | 41.3                        | 39.3                        | 36.7                        | 33.4                        | 30.3                        | 28.5        | 19.1                 | 948.3             |
| 80°          | 30.0                  | 29.4                        | 27.6                        | 24.6                        | 21.1                        | 17.9                        | 15.8        | 12.9                 | 961.2             |
| 85°          | 20.6                  | 20.0                        | 18.3                        | 15.2                        | 11.4                        | 8.0                         | 5.8         | 7.8                  | 969.1             |
| 90°          | 15.7                  | 15.1                        | 13.3                        | 10.2                        | 6.4                         | 3.0                         | 0.9         | 5.1                  | 974.2             |
| 95°          | 14.4                  | 13.8                        | 12.1                        | 9.2                         | 5.6                         | 2.3                         | 0.8         | 4.6                  | 978.8             |
| 100°         | 13.2                  | 12.6                        | 10.9                        | 8.1                         | 4.8                         | 1.7                         | 0.7         | 4.1                  | 982.9             |
| 105°         | 12.0                  | 11.4                        | 9.7                         | 7.0                         | 3.9                         | 1.1                         | 0.7         | 3.5                  | 986.3             |
| 110°         | 10.8                  | 10.1                        | 8.4                         | 5.9                         | 3.0                         | 0.8                         | 0.6         | 2.9                  | 989.2             |
| 115°         | 9.6                   | 8.9                         | 7.3                         | 4.9                         | 2.3                         | 0.8                         | 0.7         | 2.4                  | 991.7             |
| 120°         | 8.3                   | 7.6                         | 6.1                         | 3.9                         | 1.6                         | 0.8                         | 0.7         | 1.9                  | 993.6             |
| 125°         | 6.9                   | 6.2                         | 4.8                         | 2.9                         | 1.1                         | 0.8                         | 0.8         | 1.5                  | 995.1             |
| 130°         | 5.5                   | 4.9                         | 3.7                         | 2.2                         | 1.1                         | 1.0                         | 0.9         | 1.1                  | 996.2             |
| 135°         | 4.3                   | 3.8                         | 2.8                         | 1.6                         | 1.3                         | 1.1                         | 1.1         | 0.9                  | 997.1             |
| 140°         | 3.1                   | 2.8                         | 2.1                         | 1.6                         | 1.5                         | 1.3                         | 1.3         | 0.7                  | 997.7             |
| 145°         | 2.3                   | 2.1                         | 1.9                         | 1.8                         | 1.6                         | 1.5                         | 1.5         | 0.6                  | 998.3             |
| 150°         | 2.1                   | 2.0                         | 2.0                         | 1.8                         | 1.6                         | 1.6                         | 1.6         | 0.5                  | 998.8             |
| 155°         | 2.1                   | 2.0                         | 1.9                         | 1.8                         | 1.7                         | 1.6                         | 1.6         | 0.4                  | 999.2             |
| 160°         | 1.9                   | 1.9                         | 1.8                         | 1.7                         | 1.6                         | 1.6                         | 1.6         | 0.3                  | 999.5             |
| 165°         | 1.6                   | 1.7                         | 1.7                         | 1.6                         | 1.6                         | 1.6                         | 1.6         | 0.2                  | 999.8             |
| 170°         | 1.5                   | 1.6                         | 1.6                         | 1.6                         | 1.6                         | 1.6                         | 1.6         | 0.1                  | 999.9             |
| 175°         | 1.6                   | 1.6                         | 1.6                         | 1.6                         | 1.6                         | 1.6                         | 1.6         | 0.1                  | 1000.0            |
| 180°         | 1.6                   | 1.6                         | 1.6                         | 1.6                         | 1.6                         | 1.6                         | 1.6         | 0.0                  | 1000.0            |

Lichttechnischer Prüfbefund

|                       |     |                                     |                                                 |      |      |      |                                       |      |                      |      |      |
|-----------------------|-----|-------------------------------------|-------------------------------------------------|------|------|------|---------------------------------------|------|----------------------|------|------|
| Familie<br>Monsun® 11 |     |                                     | Bestell-Nr.: 51FE117P480S<br>EAN: 4069025242433 |      |      |      |                                       |      | LP-Nummer<br>59014_9 |      |      |
| UGR-Tabelle           |     |                                     | Standardraum                                    |      |      |      |                                       |      | siteco               |      |      |
| Reflexionsgrad Decke  |     | 0,7                                 | 0,7                                             | 0,5  | 0,5  | 0,3  | 0,7                                   | 0,7  | 0,5                  | 0,5  | 0,3  |
| Reflexionsgrad Wände  |     | 0,5                                 | 0,3                                             | 0,5  | 0,3  | 0,3  | 0,5                                   | 0,3  | 0,5                  | 0,3  | 0,3  |
| Reflexionsgrad Boden  |     | 0,2                                 | 0,2                                             | 0,2  | 0,2  | 0,2  | 0,2                                   | 0,2  | 0,2                  | 0,2  | 0,2  |
| Raumabmessungen       |     | Blickrichtung quer zur Leuchte (C0) |                                                 |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |                      |      |      |
| x                     | y   |                                     |                                                 |      |      |      |                                       |      |                      |      |      |
| 2H                    | 2H  | 19,0                                | 20,5                                            | 19,4 | 20,9 | 21,2 | 19,2                                  | 20,7 | 19,5                 | 21,0 | 21,3 |
|                       | 3H  | 20,0                                | 21,4                                            | 20,4 | 21,7 | 22,1 | 20,1                                  | 21,4 | 20,5                 | 21,8 | 22,1 |
|                       | 4H  | 20,5                                | 21,7                                            | 20,9 | 22,1 | 22,5 | 20,4                                  | 21,7 | 20,8                 | 22,0 | 22,4 |
|                       | 6H  | 20,9                                | 22,0                                            | 21,3 | 22,4 | 22,8 | 20,7                                  | 21,8 | 21,1                 | 22,2 | 22,6 |
|                       | 8H  | 21,1                                | 22,1                                            | 21,5 | 22,5 | 22,9 | 20,8                                  | 21,9 | 21,2                 | 22,2 | 22,6 |
|                       | 12H | 21,2                                | 22,2                                            | 21,7 | 22,6 | 23,0 | 20,8                                  | 21,8 | 21,3                 | 22,2 | 22,6 |
| 4H                    | 2H  | 19,5                                | 20,7                                            | 19,9 | 21,1 | 21,5 | 19,6                                  | 20,9 | 20,0                 | 21,2 | 21,6 |
|                       | 3H  | 20,7                                | 21,7                                            | 21,1 | 22,1 | 22,5 | 20,7                                  | 21,7 | 21,1                 | 22,1 | 22,5 |
|                       | 4H  | 21,2                                | 22,2                                            | 21,7 | 22,6 | 23,0 | 21,1                                  | 22,1 | 21,6                 | 22,5 | 22,9 |
|                       | 6H  | 21,8                                | 22,6                                            | 22,2 | 23,0 | 23,5 | 21,5                                  | 22,3 | 21,9                 | 22,7 | 23,2 |
|                       | 8H  | 22,0                                | 22,7                                            | 22,4 | 23,2 | 23,6 | 21,6                                  | 22,3 | 22,1                 | 22,8 | 23,3 |
|                       | 12H | 22,2                                | 22,8                                            | 22,7 | 23,3 | 23,8 | 21,7                                  | 22,3 | 22,1                 | 22,8 | 23,3 |
| 8H                    | 4H  | 21,5                                | 22,2                                            | 21,9 | 22,6 | 23,1 | 21,4                                  | 22,1 | 21,8                 | 22,6 | 23,0 |
|                       | 6H  | 22,1                                | 22,7                                            | 22,6 | 23,2 | 23,7 | 21,8                                  | 22,4 | 22,3                 | 22,9 | 23,4 |
|                       | 8H  | 22,4                                | 22,9                                            | 22,9 | 23,4 | 23,9 | 21,9                                  | 22,5 | 22,4                 | 23,0 | 23,5 |
|                       | 12H | 22,7                                | 23,1                                            | 23,2 | 23,6 | 24,2 | 22,0                                  | 22,5 | 22,6                 | 23,0 | 23,5 |
| 12H                   | 4H  | 21,5                                | 22,1                                            | 22,0 | 22,6 | 23,1 | 21,4                                  | 22,1 | 21,9                 | 22,5 | 23,0 |
|                       | 6H  | 22,1                                | 22,7                                            | 22,6 | 23,1 | 23,7 | 21,9                                  | 22,4 | 22,4                 | 22,9 | 23,4 |
|                       | 8H  | 22,5                                | 22,9                                            | 23,0 | 23,4 | 24,0 | 22,0                                  | 22,5 | 22,6                 | 23,0 | 23,5 |

|                       |          |                                 |                             |                                    |                             |                             |                             |                              |
|-----------------------|----------|---------------------------------|-----------------------------|------------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| Leuchtdichten-Tabelle |          | Max. für $\gamma \geq 65^\circ$ |                             | Lichttechnische Abmessungen in mm: |                             | L = 1590<br>B = 87          | H(C0) = 21<br>H(C90) = 21   | H(C180) = 21<br>H(C270) = 21 |
| C-<br>Ebenen          | $\gamma$ | 0°<br>180°                      | 15°<br>165°<br>195°<br>345° | 30°<br>150°<br>210°<br>330°        | 45°<br>135°<br>225°<br>315° | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270°                  |
|                       |          |                                 | Leuchtdichte in cd/m²       |                                    |                             |                             |                             |                              |
| 45°                   |          | 12085.7                         | 12090.0                     | 12196.1                            | 12414.3                     | 12856.3                     | 13446.8                     | 14322.2                      |
| 50°                   |          | 10010.4                         | 9997.9                      | 10115.9                            | 10292.6                     | 10636.3                     | 11154.5                     | 11998.5                      |
| 55°                   |          | 8446.4                          | 8417.7                      | 8532.1                             | 8672.3                      | 8954.5                      | 9412.1                      | 10241.5                      |
| 60°                   |          | 7229.9                          | 7205.5                      | 7306.3                             | 7423.6                      | 7665.3                      | 8068.9                      | 8877.2                       |
| 65°                   |          | 6292.4                          | 6274.5                      | 6353.7                             | 6448.3                      | 6661.5                      | 7021.8                      | 7809.3                       |
| 70°                   |          | 5517.2                          | 5509.8                      | 5529.2                             | 5611.3                      | 5788.8                      | 6107.0                      | 6890.2                       |
| 75°                   |          | 4820.0                          | 4809.6                      | 4782.6                             | 4819.4                      | 4917.9                      | 5185.7                      | 5955.8                       |
| 80°                   |          | 4143.7                          | 4102.4                      | 4069.4                             | 3980.8                      | 3955.0                      | 4098.0                      | 4811.6                       |
| 85°                   |          | 3581.3                          | 3522.1                      | 3434.5                             | 3232.2                      | 2962.8                      | 2801.1                      | 3264.9                       |

Lichttechnischer Prüfbefund

|                                                                                                                                 |                                                               |                                    |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------|
| <b>Familie</b><br><b>Monsun® 11</b>                                                                                             | <b>Bestell-Nr.: 51FE117P480S</b><br><b>EAN: 4069025242433</b> | <b>LP-Nummer</b><br><b>59014_9</b> |
| <b>Leuchtdichten in cd/m²</b> <div> <div>γ 65°</div> <div>γ 70°</div> <div>γ 75°</div> <div>γ 80°</div> <div>γ 85°</div> </div> |                                                               | <div>siteco</div>                  |

